Appl. No.: 10/699,024 Filing Date: October 31, 2003

## IN THE SPECIFICATION

Please amend paragraph 74 of the specification as published (which begins on page 13, line 27 of the application as filed) as follows:

The existing pattern discovery algorithm "TEIRESIAS" discovers patterns in multiple sequences that satisfy user-defined criteria such as minimum support, width etc. This algorithm is generally available and is, for example, available in the World Wide Web (www) at ebcsrv.watson.ibm.com/tspd.html cbcsrv(dot)Watson(dot)ibm(dot)com/tspd (dot)html. The TEIRESIAS algorithm is performed for these sequences and the Match-Set entries generated for  $\Phi\alpha$  are shown in Table 1 above. The results are presented in Table 2 below, which is a table of Match-Set entries generated by the TEIRESIAS algorithm for the replets.

Please amend paragraph 81 of the specification as published (which begins on page 16, line 16 of the application as filed) as follows:

Fig. <u>5</u> 4-presents a base-replet-sequence-matrix <u>500</u> 400-that is modified to accommodate the overlapping pattern {aa..a...a} and the schematic representation of the resulting replet-sequence-matrix. The base-replet-connector allows the resolving of the base pattern that was chosen against the non-base pattern (In this case, the pattern is {aaataa..aaa}).

Please amend paragraph 84 of the specification as published (which begins on page 16, line 24 of the application as filed) as follows:

Fig. <u>6-5-presents</u> a replete-sequence-matrix <u>600 500-that</u> is modified to include a new replet {actata}. This new replet is a sub-string of the current replet {tactata.....ttac}. Thus base-replet connectors ARE added from actata's replet instances to the corresponding tactata.....ttac's replet instances.